CLAIMS

1. A method comprising:

submitting a print job to a print device;

receiving notification from the print device that a non-optimal condition exists with one or more consumables;

displaying a warning message about a toner color affected by the non-optimal condition;

displaying a visual representation of the print job without the affected toner color;

suggesting one or more alternate color schemes to use for the print job; and

if an alternate color scheme is selected, resubmitting the print job with the alternate color scheme to the print device.

2. A method as recited in claim 1, wherein resubmitting the print job further comprises:

adjusting the color gamut of the print device according to the selected alternate color scheme.

3. A method as recited in claim 2, wherein adjusting the color gamut comprises:

accessing a color look-up table that corresponds to the non-optimal condition; and

mapping the color gamut of the print device to the color look-up table to replace non-reproducible colors in the print job with reproducible colors from the look-up table according to the selected alternate color scheme.

4. A method as recited in claim 1 further comprising:

presenting print options for selection; and

executing a selected print option, the print options comprising;

canceling the print job;

permitting the print job to print with the non-optimal condition;

permitting the print job to print without the affected toner color;

redirecting the print job to an alternate print device;

pausing to permit correction of the non-optimal condition and then printing the print job; and

printing the print job in grayscale.

5. A method as recited in claim 1, wherein the non-optimal condition is a low toner level for one of a plurality of toner colors in an all-in-one toner cartridge.

6. A method as recited in claim 1, wherein the non-optimal condition is a depleted toner color for one of a plurality of toner colors in an all-in-one toner cartridge.

7. A method as recited in claim 1, wherein the non-optimal condition is a low toner level for one of a plurality of toner colors each located in a separate toner cartridge.

8. A method as recited in claim 1, wherein the non-optimal condition is a depleted toner color for one of a plurality of toner colors each located in a separate toner cartridge.

9. A method as recited in claim 1, wherein the non-optimal condition is a worn photoconductor.

10. A method as recited in claim 1, wherein the non-optimal condition is a worn transfer element.

11. Computer-readable media having computer-readable instructions for performing the method as recited in claim 1.

12. A method for adjusting a color gamut comprising:

receiving a print job from a host;

checking for a non-optimal consumable condition;

notifying the host if a non-optimal consumable condition is detected;

receiving the print job with an adjusted color gamut from the host; and

printing the print job with the adjusted color gamut.

13. A method as recited in claim 12, wherein checking for a non-optimal consumable condition further comprises:

directly monitoring toner availability by monitoring the level of toner in a toner cartridge.

14. A method as recited in claim 12, wherein checking for a non-optimal consumable condition further comprises:

indirectly monitoring toner availability by monitoring a test patch during a calibration cycle.

15. A method as recited in claim 12, wherein checking for a non-optimal consumable condition further comprises:

monitoring the effect of a step within an electrophotographic process.

16. A method as recited in claim 15, wherein the effect is the change in charge balance present on the consumable.

17. A method as recited in claim 16, wherein the consumable is a photoconductor drum.

18. A method as recited in claim 16, wherein the consumable is a transfer element.

19. A method as recited in claim 12, wherein checking for a non-optimal consumable condition further comprises:

monitoring the number of rotations made by the consumable throughout the life history of the consumable.

20. A method as recited in claim 19, wherein the consumable is a photoconductor drum.

21. A method as recited in claim 19, wherein the consumable is a transfer element.

22. Computer-readable media having computer-readable instructions for performing the method as recited in claim 12.

23. A method comprising:

receiving a print job;

checking for a non-optimal consumable condition; and

adjusting the color gamut of a print device based on a non-optimal consumable condition.

24. A method as recited in claim 23, wherein adjusting the color gamut further comprises:

accessing a color look-up table that corresponds to the non-optimal condition; and

mapping the color gamut of the print device to the color look-up table to replace non-reproducible colors in the print job with reproducible colors from the look-up table according to a selected alternate color scheme.

25. A printer comprising:

a consumable component;

a monitoring device to detect a non-optimal condition of the consumable component, the non-optimal condition affecting a toner color;

printer control logic configured to send one or more visual representations of a print job to a host computer for display, each alternate visual representation illustrating a selectable alternate color scheme that excludes the affected toner color;

the printer control logic further configured to adjust the color gamut of the printer according to a selected alternate color scheme and output the print job.

26. A printer as recited in claim 25, wherein the printer control logic is further configured to provide options for managing the non-optimal condition, the options comprising:

canceling the print job;

permitting the print job to print with the non-optimal condition;

permitting the print job to print without the affected toner color;

redirecting the print job to an alternate print device;

pausing to permit correction of the non-optimal condition and then printing the print job; and

printing the print job in grayscale.

27. A printer as recited in claim 25, wherein the consumable component is an all-in-one toner cartridge comprising a plurality of different colored toners.

28. A printer as recited in claim 25, wherein the consumable component is a plurality of consumable components and the monitoring device is a plurality of monitoring devices, each monitoring device configured to monitor the condition of one of the plurality of consumable components.

29. A computer coupled to a print device, the print device comprising a consumable component having a monitoring device configured to detect a non-optimal condition of the consumable component, the computer comprising:

a printer controller configured to send a print job to the print device;

the printer controller further configured to receive information from the monitoring device and provide options for managing a non-optimal condition, the options comprising:

canceling the print job;

permitting the print job to print with the non-optimal condition;

permitting the print job to print without a toner color affected by the non-optimal condition;

redirecting the print job to an alternate print device;

pausing the print job to permit correction of the non-optimal condition and then permitting the print job to print;

permitting the print job to print in grayscale; and

visually presenting the print job in one or more selectable alternate color schemes, each alternate color scheme excluding the toner color affected by the non-optimal condition.

30. A computer as recited in claim 29, wherein the printer controller is further configured to adjust the color gamut of the print device according to a selected alternate color scheme and resend the print job to the print device for printing.

31. A system comprising:

a monitoring device configured to monitor the condition of a consumable component;

a printer controller configured to adjust the color gamut of a print device based on a non-optimal condition of the consumable component.

32. A system as recited in claim 31, wherein the printer controller is resident in a computer.

33. A system as recited in claim 31, wherein the printer controller is resident in the print device.

34. A system comprising:

a computer;

a print device coupled to the computer, the print device comprising a consumable component;

the consumable component comprising a monitoring device configured to send information about the condition of the consumable component to the computer;

the computer configured to visually display a print job based on the condition of the consumable component;

the computer further configured to look up one or more alternate color schemes based on the condition of the consumable component and display the print job with the one or more alternate color schemes;

the computer further configured to send the print job to the print device to be printed with an alternate color scheme.